

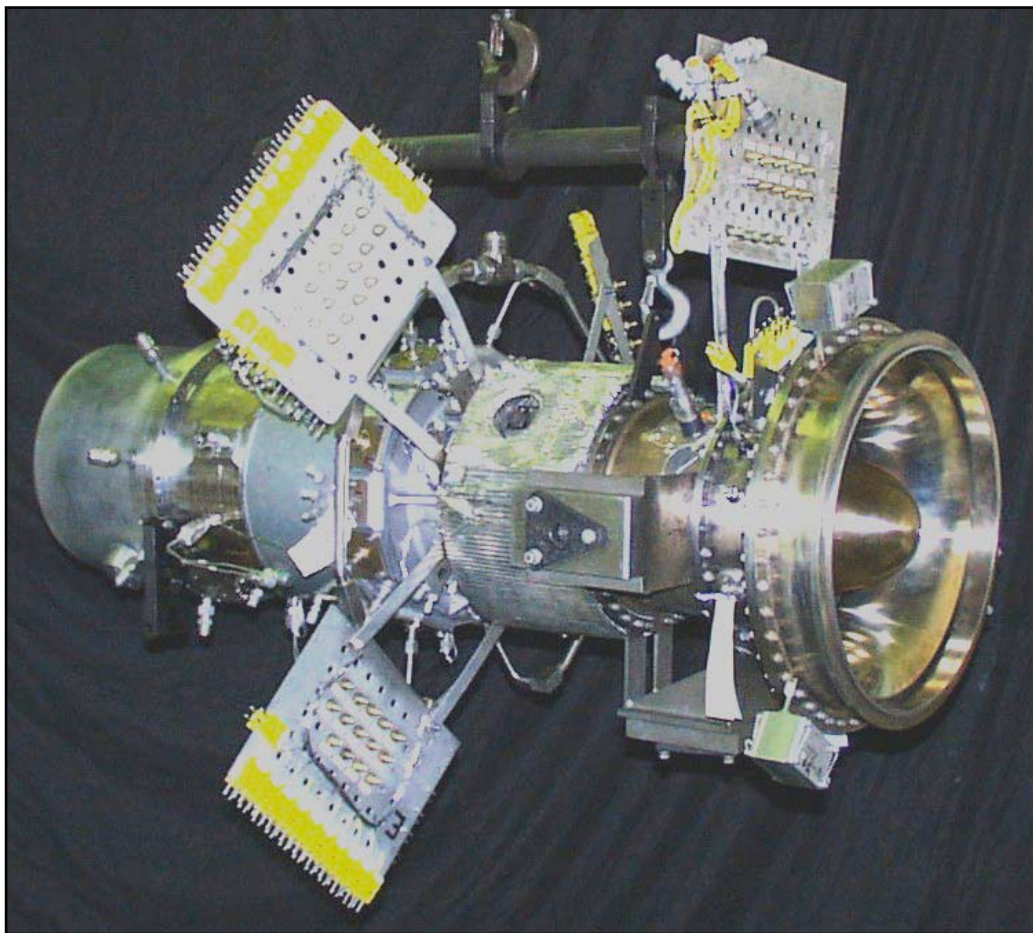


# Air Force Research Laboratory|AFRL

*Science and Technology for Tomorrow's Air and Space Force*

## SUCCESS STORY

### **AFRL COMPLETES SUCCESSFUL SUPERSONIC DEMONSTRATION ENGINE TESTING**



AFRL completed XTLE7/1 supersonic demonstrator engine testing at the Allison Advanced Development Company/Rolls-Royce Corporation test facility, Indianapolis, Indiana. This engine's specific thrust level is the highest ever produced by an expendable turbine engine, marking another first for the Integrated High-Performance Turbine Engine Technology (IHPTET) program.



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### **Accomplishment**

The AFRL team conducted the initial checkout of the XTL17/I supersonic demonstrator engine. During subsequent performance testing, the XTL17/I expendable turbine engine achieved a specific thrust 87% higher than the baseline defined for this engine class in the IHPTET program.

### **Background**

The XTL17/I is part of the Joint Expendable Turbine Engine Concept portion of the IHPTET program, demonstrating expendable and limited-life engine technologies for applications such as cruise missiles. Demonstrations such as those involving the XTL17/I provide the warfighter with low-risk technology transition, resulting in a high level of readiness and increased safety and performance.

Propulsion  
Support to the Warfighter  
Air

### **Additional Information**

To receive more information about this or other activities in the Air Force Research Laboratory, contact TECH CONNECT, AFRL/XPTC, (800) 203-6451 and you will be directed to the appropriate laboratory expert. (PR-S-06-02)

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